

Yvann LE FAY

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EDUCATION

École Normale Supérieure Paris-Saclay - Institut Polytechnique de Paris	Orsay, France
<i>M.Sc. in Statistics and Machine Learning, MVA</i>	2023 - 2024
<ul style="list-style-type: none">Optimal transport, learning for time series, probabilistic graphical models, convex optimization, learning & generation by sampling, bayesian machine learning	
ENSAE Paris - Institut Polytechnique de Paris	Palaiseau, France
<i>M.Eng. in Statistics</i>	2020 - 2024
<ul style="list-style-type: none">Sequential Monte Carlo methods, asymptotic and non-asymptotic statistics, econometrics, stochastic calculus	
Paris-Saclay University	Orsay, France
<i>B.Sc. in Mathematics</i>	2020 - 2021
Lycée Henri-IV	Paris, France
<i>Program in math, computer science and physics leading to nationwide entrance examinations to the Grandes Écoles</i>	
	2018 - 2020

EXPERIENCE

Center for research in Economics and Statistics (CREST)	Palaiseau, France
<i>Research internship, supervised by Nicolas Chopin</i>	May 2024 - Expected Sep. 2024
Aalto University - Simo Särkkä's group	Espoo, Finland
<i>Research internship, supervised by Adrien Corenflos and Pr. Simo Särkkä</i>	May 2023 - Sep. 2023
<ul style="list-style-type: none">Proposed the first probabilistic numerics solver for Stochastic Differential Equations (SDEs) in the additive-noise setting using Gaussian filtering methods. Preprint version: abs/2401.03338. Published version: Submitted to Bayesian Analysis. Presented at BAYSM 2023 (ISBA).Companion-code of the article (JAX): github.com/ylefay/bayesianSDEsolver.	
INRIA - MIND	Palaiseau, France
<i>Research internship, supervised by Demian Wassermann</i>	Jan. 2023 - Mar. 2023
<ul style="list-style-type: none">Worked on variational inference methods.	
Lombard Odier Investment Managers' - Multi-Asset	Geneva, Switzerland
<i>Off-cycle internship as a quantitative researcher, supervised by Serge Tabachnik</i>	Jun. 2022 - Nov. 2022
<ul style="list-style-type: none">Contributed to a proprietary scalable and highly modular framework for backtesting cross-asset trading strategies. Researched, implemented and backtested strategies (ARPs, Vol, Momentum). Implemented data mining procedures and modern regression methods. Contributed to a statistics and reporting library. Received a renewal offer.	
Société Générale (CDN, Retail Banking)	Paris, France
<i>Internship in data science and risk analysis, supervised by Pierre Bouché</i>	Jun. 2021 - Aug. 2021
<ul style="list-style-type: none">Backtested a credit decision tool, detected outliers in audit logs. Conducted a study on omnichannel customer behaviours as part of the fusion between Société Générale and Crédit du Nord.	

AWARDS & GRANTS

French-Finnish PhD Cotutelle scholarship - the Magnus Ehrnrooth Foundation	
<i>france.fi/wp-content/uploads/2023/10/Magnus-Ehrnrooth-FI-FR-PhD-Cotutelle.pdf</i>	2024
<ul style="list-style-type: none">Received a doctoral grant of 24 000 euros, plus 2 000 euros for travel expenses, per year. The Magnus Ehrnrooth Foundation promotes scientific collaboration between France and Finland by financing international PhD cotutelles.	
Accessit in regional math olympiads	
<i>euler.ac-versailles.fr/IMG/pdf/olympiades_equipe_2016_palmares.pdf</i>	2016
Hall of fame - Microsoft Security Response Center	
<i>msrc.microsoft.com/update-guide/acknowledgement/archive</i>	2015
<ul style="list-style-type: none">Three times acknowledged for having reported security vulnerabilities.	

PROGRAMMING SKILLS

Languages: Python, Ocaml, Wolfram Language, SQL
Technical stack: Git, Linux, Bloomberg, Excel
Libraries and others: JAX, PySpark, Dask, blp

OTHERS

Languages: French, English
Citizenships: French, Swiss